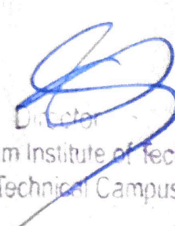
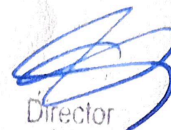


B. Tech Grad ing	CE	VIII	CE 805 Major Project II	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Major project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc	Professional Ethics & human Values
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			CE 804 Earthquake Resistant Structural Lab	<b>Earthquake-resistant or aseismic structures</b> are designed to protect buildings to some or greater extent from earthquakes. While no structure can be entirely immune to damage from earthquakes, the goal of earthquake resistant construction is to erect structures that fare better during Seismic activity than their conventional counterparts. According to building codes, earthquake-resistant structures are intended to withstand the largest earthquake of a certain probability that is likely to occur at their location. This means the loss of life should be minimized by preventing collapse of the buildings for rare earthquakes while the loss of the functionality should be limited for more frequent ones	Sustainability
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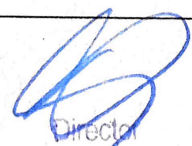


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		VII	CE 706 Major Project	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Major project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc	Professional Ethics & human Values
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			<p>CE 602 Environmental Engineering</p> <p>The goal of environmental engineering is to ensure that societal development and the use of water, land and air resources are sustainable. This goal is achieved by managing these resources so that environmental pollution and degradation is minimized.</p> <p>Environmental engineers study water, soil and air pollution problems, and develop technical solutions needed to solve, attenuate or control these problems in a manner that is compatible with legislative, economic, social and political concerns. Civil engineers are particularly involved in such activities as water supply and sewerage, management of surface water and groundwater quality, remediation of contaminated sites and solid waste management.</p> <p>The activities of such engineers include, but are not limited to, the planning, design, construction and operation of water and wastewater treatment facilities in municipalities and industries, modelling and analysis of surface water and groundwater quality, design of soil and remediation systems, planning for the disposal and reuse of wastewaters and sludges, and the collection, transport, processing, recovery and disposal of solid wastes according to accepted engineering practices.</p>	Environment Sustainability
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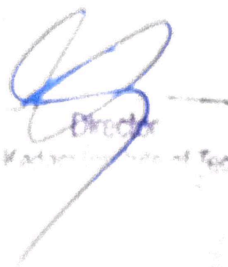


			<p>CE 507 Internship III</p> <p>An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. A quality internship:</p> <ul style="list-style-type: none"> <li>• Consists of a part-time or full-time work schedule that includes no more than 25% clerical or administrative duties.</li> <li>• Provides a clear job/project description for the work experience.</li> <li>• Orients the student to the organization, its culture and proposed work assignment(s).</li> <li>• Helps the student develop and achieve learning goals.</li> <li>• Offers regular feedback to the student intern.</li> </ul>	<p>Professional Ethics &amp; human Values</p>
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			CE 506 Minor Project	<p>Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Minor project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc</p>	Professional Ethics & human Values
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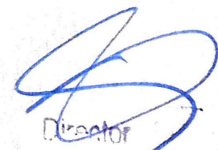
  
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		V	CE 508 Field visit, Case Study Seminar	A field trip is a journey to a place away from normal, usually urban, environment which is attended by a group of students. The purpose of the field trip is to provide insights and direct experience with real-life initiatives and activities in thematic accordance with the visited place.	Professional Ethics & human Values
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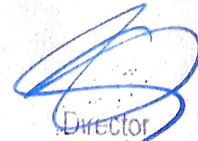
		VI	CE Internship	607	<p>An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. A quality internship:</p> <ul style="list-style-type: none"> <li>• Consists of a part-time or full-time work schedule that includes no more than 25% clerical or administrative duties.</li> <li>• Provides a clear job/project description for the work experience.</li> <li>• Orients the student to the organization, its culture and proposed work assignment(s).</li> <li>• Helps the student develop and achieve learning goals.</li> <li>• Offers regular feedback to the student intern.</li> </ul>	Professional Ethics & human Values
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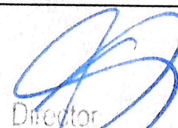


			<b>CE 608 Minor Project</b>	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Minor project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc	Professional Ethics & human Values
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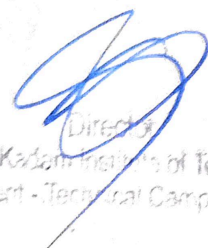
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		IV	ES 401 EEE	<p>The goal of environmental engineering is to ensure that societal development and the use of water, land and air resources are sustainable. This goal is achieved by managing these resources so that environmental pollution and degradation is minimized.</p> <p>Environmental engineers study water, soil and air pollution problems, and develop technical solutions needed to solve, attenuate or control these problems in a manner that is compatible with legislative, economic, social and political concerns. Civil engineers are particularly involved in such activities as water supply and sewerage, management of surface water and groundwater quality, remediation of contaminated sites and solid waste management.</p> <p>The activities of such engineers include, but are not limited to, the planning, design, construction and operation of water and wastewater treatment facilities in municipalities and industries, modelling and analysis of surface water and groundwater quality, design of soil and remediation systems, planning for the disposal and reuse of wastewaters and sludges, and the collection, transport, processing, recovery and disposal of solid wastes according to accepted engineering practices.</p>	Environment Sustainability
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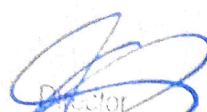
			<p><b>BT 408 Cyber security</b></p> <p>Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks.</p> <p>These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information; extorting money from users; or interrupting normal business processes.</p> <p>Implementing effective cyber security measures is particularly challenging today because there are more devices than people, and attackers are becoming more innovative.</p>	<p>Professional Ethics &amp; human Values</p>
			<p><b>BT 409 Indian Knowledge System</b></p> <p>Indian Knowledge System (IKS) is an innovative cell under Ministry of Education (MoE) at AICTE, New Delhi. It is established to promote interdisciplinary research on all aspects of IKS, preserve and disseminate IKS for further research and societal applications. It will actively engage for spreading the rich heritage of our country and traditional knowledge in the field of Arts and literature, Agriculture, Basic Sciences, Engineering &amp; Technology, Architecture, Management, Economics, etc.</p>	<p>Professional Ethics &amp; human Values Sustainability</p>



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		III	CE 306 Study of Historical & Ancient Civil Engineering Practices	<ol style="list-style-type: none"> <li>1. It encourages educators to think explicitly about the aims of world history education and about the knowledge and understandings that they expect their students to achieve</li> <li>2. It is conceived on the premise that students will achieve will greater competence in world history and more successfully meet content and performance standards, if they are guided to relate particular subject matter to larger patterns of historical meaning and significance.</li> <li>3. Classify nature of pre historic societies</li> </ol>	Professional Ethics & human Values Environment Sustainability
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B. Tech. Grading	ME	IV	Energy & Environmental Engineering ES 401	The objective of this Course is to provide an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application.	Environment and Sustainability
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